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动物分类学报

# 甘肃管螺属一新种记述（肺螺亚纲，柄眼目，烟管螺科）

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**摘 要** 记述采自甘肃省文县陆生贝类1新种，文县管螺 *Phaedusa wenxianensis* sp. nov.，对新种形态特征、栖息环境进行了描述，并与其相似种进行了分析和讨论。

**关键词** 肺螺亚纲，柄眼目，烟管螺科，管螺属，新种.

**中图分类号** Q959.212

管螺属系 H. & A. Adams, 1855 年创建，其主要特征为：贝壳通常较大，较厚，具有横的波纹状螺旋刻纹。背面或背侧面部下板不很高，主襞褶的下方是1明显上腭褶，腭褶常变化，月状襞常缺乏，月状襞被一些小的平行褶所代替，口缘扩大，螺旋板显著，亚轴板常在附近隐藏。闭板具有较宽的桨叶。本属的种类主要分布于东亚和东南亚，印度 - 澳大利亚地区。

整理甘肃省陆生贝类标本时，经鉴定发现烟管螺科 Clausiliidae 管螺属 1 新种，文县管螺 *Phaedusa wenxianensis* sp. nov.，报道如下。

**文县管螺，新种 *Phaedusa wenxianensis* sp. nov.**（图 1 ~ 7）

形态特征 贝壳小型，左旋，壳质薄，易碎，呈细长纺锤形。有 $10\frac{1}{2}$个螺层，前几个螺层增长迅速，略膨胀，螺旋部较高，呈塔形，体螺层增长缓慢，膨大。壳面呈栗褐色或茶褐色，其上有粗而成斜行排列的生长线和螺纹。壳顶钝，胚螺层（1 ~ 2 个螺层）光滑，无螺纹，缝合线十，分深。壳口小，呈梨形，稍倾斜，口缘厚，不完整。在壳口处可见到较大的上板和呈片状的下板，而看不见下轴板。上、下板之间距离稍近，弯曲向内盘旋，上板稍粗大，发达，其末端与螺旋板相连。在体螺层右侧面可见 1 细长的缝合襞和 1 短而下斜的平行褶，其它襞褶未见。闭板呈小匙状，其顶端圆厚，无缺刻，柄细长。

正模（mm）：壳高 11.2，壳宽 2.6，壳口高 1.3，壳口宽 1.1，2003 年 8 月 9 日，甘肃省文县铁楼瞎子沟，海拔 1 490 m。副模（mm）：成螺 11 个，幼螺 5 个。壳高 10.9 ~ 11.5，壳宽 2.5 ~ 2.7，壳口高 1.24 ~ 1.35，壳口宽 1.0 ~ 1.2，2003 年 8 月 9 日，甘肃省文县铁楼瞎子沟，海拔 1 490 m；1998 年 8 月 6 日，甘肃省文县软桥坝，海拔 1 400 m。

模式标本保存在中国科学院动物研究所标本馆（北京）。

词源：新种种名源于本种的采集地。

栖息环境 常生活在灌木丛、草丛、石块、落叶下和土石缝隙中，栖息于潮湿多腐殖质的石灰岩地区，公园和寺庙附近墙壁和岩石上。

讨论 新种与丹巴管螺 *Phaedusa danbanensis* Chen and Zhang, 1999 外形上极为相似，但后者个体较小（mm）（壳高 15，壳宽 4.1，壳口高 4，壳口宽 3.1），$9\frac{1}{2}$螺层，在体螺层右侧面可见到 1 较长的主襞和 3 条较短的腭褶。新种壳高 11.2，壳宽 2.6，壳口高 1.3，壳口宽 1.1，有 $10\frac{1}{2}$个螺层，在壳口处可见到较大的上板和呈片状的下板，而看不见下轴板。上、下板之间距离稍近，弯曲向内盘旋，上板稍粗大，发达，其末端与螺旋板相接。在体螺层右侧面可见 1 细长的缝合襞和 1 短而下斜的平行板，其它襞板未见。与前者有所区别。

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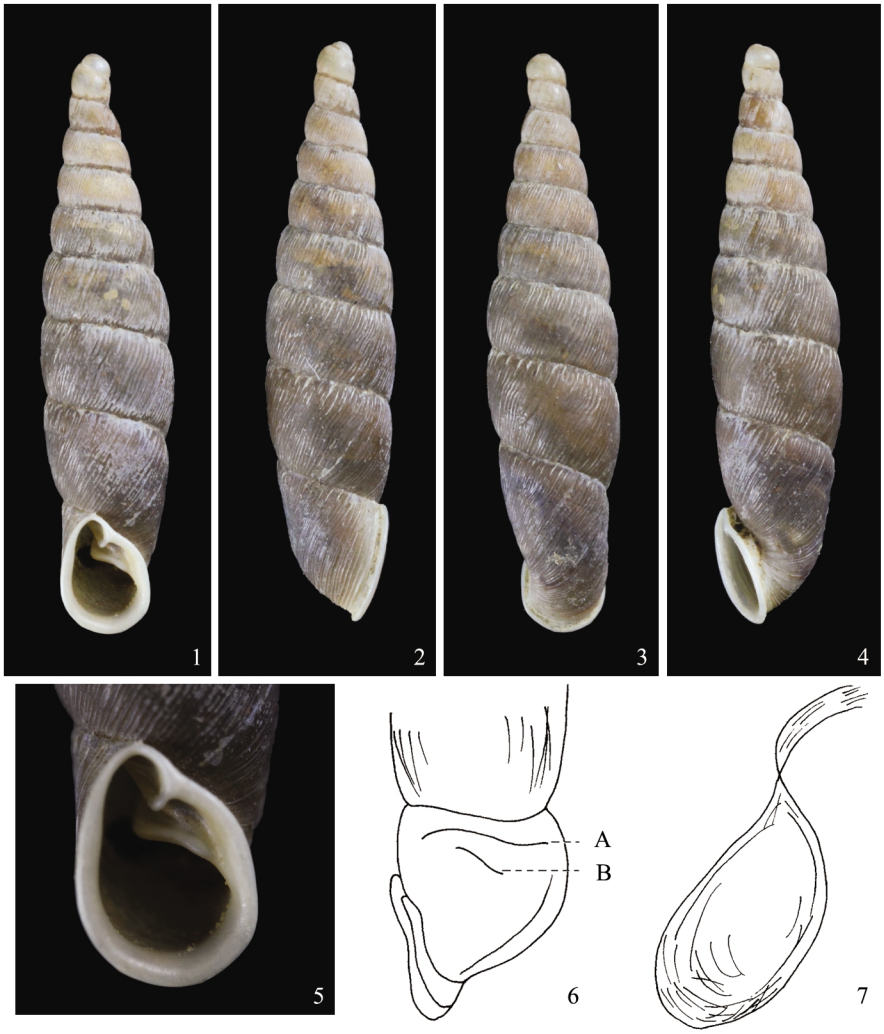


图 1～7 文县管螺，新种 *Phaedusa wenxianensis* sp. nov.

1. 侧面观（lateral view of shell）2. 左侧面观（left lateral of shell）3. 背侧面观（dorsal lateral of shell）4. 右侧面观（right lateral of shell）5. 壳口（aperture）6. 缝合襞和平行褶位置（location of suturalis palatals and parallel plica）7. 闭板（plate of clausilum）

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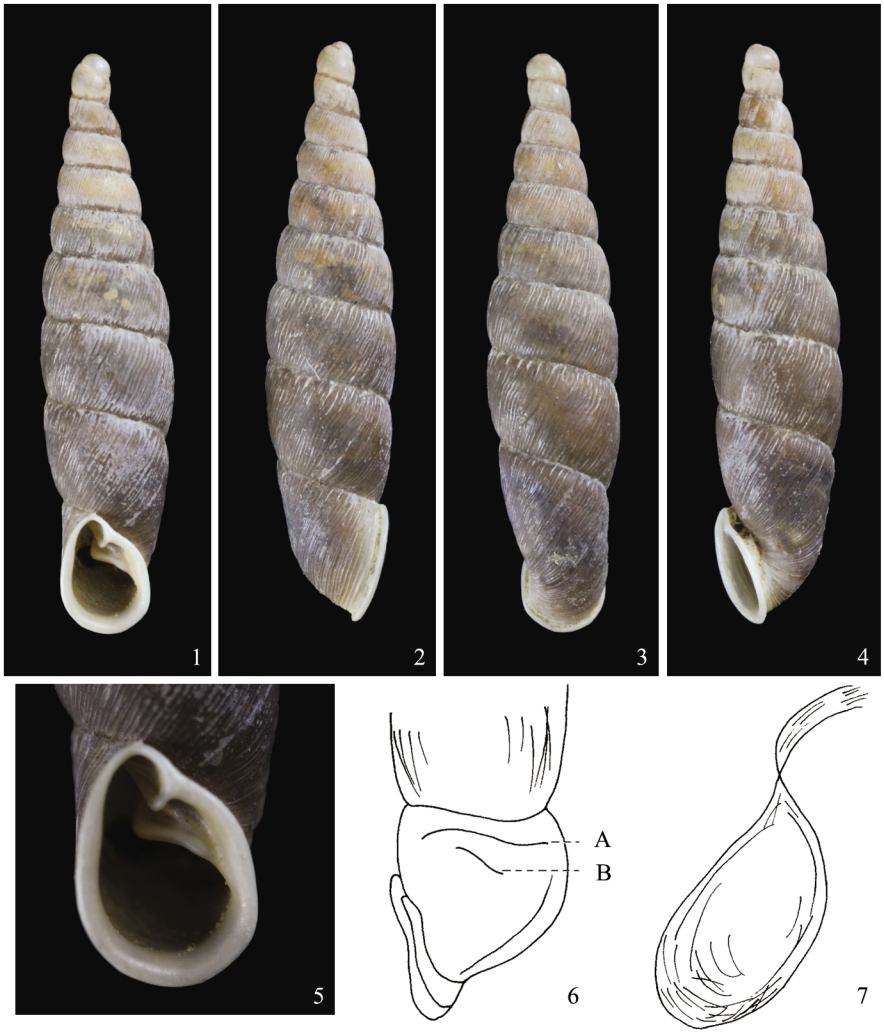


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# A NEW SPECIES OF THE GENUS *PHAEDUSA* FROM CHINA (PULMONATA, STYLOMMATOPHORA, CLAUSILLIDAE)

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**Abstract** In the present paper a new species of genus *Phaedus* H. & A. Adams, 1855 of family Clausillidae is described under the names; *Phaedusa wenxianensis* sp. nov. basing on materials collected in Wenxian County, Gansu Province, China, Aug. 2003. Type specimens are deposited in the Institute of Zoology, Chinese Academy of Sciences.

***Phaedusa wenxianensis* sp. nov.** (Figs 1 – 7)

Holotype. Height 11.2 mm, diam. 2.6 mm, aperture height 1.3 mm, aperture breadth 1.1 mm, collected from Tielou Town, Wenxian County (33°N, 104°06′E; alt. 1 490 m), Gansu Province, China, 9 Aug. 2003.

Paratypes. 11 adult specimens, 5 young specimens. Height 10.9 – 11.5 mm, diam. 2.5 – 2.7 mm, aperture height 1.24 – 1.35 mm, aperture breadth 1.0 – 1.2 mm, alt. 1 490 m, Tielou Town, Wenxian County (33° N, 104° 06′ E), Gansu Province, China, 9 Aug. 2003, alt. 1 400 m, Raunqiaoba Town, Wenxian County (33° N, 104°06′E), Gansu Province, China, 6 Aug. 1998.

Etymology. The name of the new species is based on collected form Wenxian County, adjective.

The shell of *Phaedusa wenxianensis* is small. The shell is sinistral, and thin, fragile, slender, the shell is fusiform. There are 10.5 convex whorls, moderately convex, and with high spiral part, pagoda-formed, body whorl expand. Shell chestnut brown or dark brown in colour, surface with very distinct oblique thick spiral line and growth line; protoconch smooth, without spiral line. Apex blunt, suture deep. Aperture small, pear-shaped, slightly oblique, peristome thick, not complete. Upper lamella large, inferior lamella flake-formed, both lamellae visible in aperture, close to each other, and winding spirally towards interior. Suturalis palatals long and thin, and with 1 short oblique parallel plica visible in the right side of the last whorl; other plicae and lamellae is not visible. Clausilium spoon-formed, thick, without a small notch on front; pedicle long and thin.

The new species closely resembles *Phaedusa danbanensis* Chen and Zhang, 1999 in general structure, but in the latter the shell is large (height 15 mm, diam. 4.1 mm, aperture height 4 mm, aperture breadth 3.1 mm), with 9 $\frac{1}{2}$ whorls, long principalis plica and 3 short plicae. The clausilium small leaf-form, acute and smooth, and without a small notch.

**Key words** Pulmonata, Stylommatophora, Clausiliidae, *Phaedusa*, new species.

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